Performance Data Sheet

AE4460U-AA1C

General Information

Model	AE4460U-AA1C	**Refrigerant**	R-290
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	4070	3610	3250	2970	2730	2500	2240
	Watts	509	513	527	549	573	595	611
	Amps	7.14	6.90	6.88	6.99	7.18	7.36	7.45
	Lb/h	30.0	27.6	26.1	25.3	24.8	24.3	23.6
10	Btu/h	4480	4000	3620	3320	3070	2830	2570
	Watts	521	528	546	571	599	626	647
	Amps	7.25	7.02	7.01	7.15	7.36	7.56	7.68
	Lb/h	33.2	30.7	29.2	28.4	28.0	27.7	27.1
15	Btu/h	4980	4450	4050	3720	3450	3190	2910
	Watts	534	543	564	593	625	656	682
	Amps	7.35	7.13	7.14	7.30	7.53	7.76	7.91
	Lb/h	36.9	34.4	32.9	32.0	31.6	31.3	30.9
20	Btu/h	5530	4960	4520	4160	3850	3560	3260
	Watts	546	558	582	614	649	684	714
	Amps	7.43	7.23	7.26	7.44	7.70	7.96	8.14
	Lb/h	41.2	38.5	36.9	35.9	35.5	35.2	34.8
25	Btu/h	6130	5510	5010	4600	4260	3930	3600
	Watts	558	572	598	633	672	710	744
	Amps	7.50	7.32	7.37	7.58	7.86	8.16	8.38
	Lb/h	45.9	43.0	41.1	40.0	39.5	39.1	38.7
30	Btu/h	6760	6080	5520	5050	4650	4280	3900
	Watts	570	585	613	650	692	733	770
	Amps	7.57	7.41	7.48	7.72	8.03	8.36	8.62
	Lb/h	50.8	47.6	45.5	44.2	43.4	42.9	42.4
35	Btu/h	7410	6650	6020	5490	5030	4600	4170
	Watts	579	596	626	665	709	753	793
	Amps	7.63	7.49	7.59	7.86	8.21	8.57	8.86
	Lb/h	55.8	52.2	49.8	48.2	47.2	46.5	45.8
40	Btu/h	8050	7200	6500	5890	5360	4860	4370
	Watts	588	605	637	677	723	769	812
	Amps	7.69	7.58	7.70	8.00	8.38	8.78	9.12
	Lb/h	60.8	56.7	53.9	52.0	50.7	49.7	48.7

45	Btu/h	8670	7730	6940	6250	5630	5060	4490
	Watts	594	612	644	686	733	781	826
	Amps	7.75	7.66	7.82	8.15	8.57	9.00	9.39
	Lb/h	65.5	61.0	57.7	55.4	53.7	52.3	51.1
50	Btu/h	9260	8220	7320	6540	5840	5170	4530
	Watts	597	615	648	691	739	789	836
	Amps	7.81	7.75	7.94	8.30	8.76	9.24	9.67
	Lb/h	70.0	64.9	61.1	58.2	56.1	54.3	52.7
55	Btu/h	9800	8650	7640	6760	5950	5190	4450
	Watts	598	616	648	692	741	792	841
	Amps	7.87	7.84	8.06	8.46	8.96	9.49	9.96
	Lb/h	73.9	68.2	63.8	60.4	57.7	55.5	53.5
60	Btu/h	10300	9000	7880	6880	5960	5100	4250
	Watts	595	612	645	688	738	789	839
	Amps	7.93	7.94	8.20	8.63	9.18	9.75	10.3
	Lb/h	77.3	70.9	65.8	61.8	58.5	55.8	53.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.503715E+04	1.400937E+03	2.585810E+01	1.135259E+02
C2	1.012064E+02	-1.229308E+00	3.578401E-02	5.504602E-01
C3	-2.667684E+02	-2.647392E+01	-5.130314E-01	-2.155581E+00
C4	3.730865E+00	8.613782E-02	-6.677021E-04	2.943970E-02
C5	-9.166955E-01	1.335516E-02	-3.883499E-04	-5.316498E-03
C6	2.013338E+00	2.470620E-01	4.477753E-03	1.738186E-02
C7	-2.111150E-02	-5.799158E-04	2.547276E-06	-1.880396E-04
C8	-1.943168E-02	-7.479882E-04	4.157989E-06	-1.330437E-04
C9	4.125684E-03	3.567439E-04	3.340928E-06	3.914891E-05
C10	-5.538959E-03	-7.155836E-04	-1.260216E-05	-4.807549E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE4460U-AA1C

General Information

Model	AE4460U-AA1C	**Refrigerant**	R-290
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	4520	3970	3610	3370	3180	2980	2690
	Watts	518	509	520	545	574	600	616
	Amps	6.05	6.47	6.79	7.03	7.21	7.35	7.47
	Lb/h	30.0	26.7	25.0	24.4	24.3	24.0	23.0
10	Btu/h	5000	4430	4040	3760	3540	3290	2960
	Watts	533	525	538	565	597	626	645
	Amps	6.19	6.60	6.91	7.17	7.37	7.54	7.71
	Lb/h	33.0	29.7	28.1	27.4	27.1	26.7	25.5
15	Btu/h	5530	4930	4510	4210	3950	3660	3280
	Watts	549	542	557	585	620	652	675
	Amps	6.33	6.72	7.04	7.30	7.52	7.74	7.95
	Lb/h	36.4	33.1	31.4	30.7	30.3	29.7	28.3
20	Btu/h	6090	5470	5030	4690	4390	4070	3640
	Watts	564	558	574	605	643	679	705
	Amps	6.48	6.85	7.16	7.43	7.68	7.92	8.19
	Lb/h	40.1	36.8	35.1	34.4	33.9	33.2	31.6
25	Btu/h	6700	6060	5590	5220	4880	4510	4040
	Watts	577	573	592	625	665	704	735
	Amps	6.62	6.97	7.28	7.55	7.82	8.10	8.42
	Lb/h	44.0	40.9	39.2	38.4	37.8	37.0	35.2
30	Btu/h	7350	6680	6180	5780	5410	5000	4480
	Watts	590	587	608	644	687	730	764
	Amps	6.76	7.10	7.39	7.68	7.96	8.28	8.63
	Lb/h	48.2	45.2	43.5	42.7	42.1	41.1	39.2
35	Btu/h	8020	7330	6800	6370	5960	5510	4950
	Watts	601	600	623	661	708	754	792
	Amps	6.90	7.21	7.50	7.79	8.10	8.44	8.84
	Lb/h	52.7	49.7	48.1	47.3	46.7	45.6	43.5
40	Btu/h	8730	8010	7460	6990	6550	6050	5450
	Watts	611	611	636	677	727	776	819
	Amps	7.03	7.32	7.60	7.90	8.22	8.59	9.04
	Lb/h	57.4	54.5	53.0	52.2	51.5	50.4	48.2

45	Btu/h	9460	8720	8130	7640	7150	6620	5970
	Watts	618	621	648	692	744	798	844
	Amps	7.16	7.43	7.70	7.99	8.33	8.74	9.22
	Lb/h	62.4	59.6	58.1	57.4	56.7	55.5	53.2
50	Btu/h	10200	9450	8830	8300	7780	7210	6510
	Watts	623	627	657	704	760	817	868
	Amps	7.28	7.52	7.78	8.08	8.43	8.87	9.40
	Lb/h	67.5	64.9	63.5	62.8	62.1	60.9	58.5
55	Btu/h	11000	10200	9550	8980	8430	7810	7070
	Watts	625	632	663	713	773	834	889
	Amps	7.40	7.61	7.86	8.16	8.52	8.98	9.55
	Lb/h	72.8	70.4	69.1	68.4	67.8	66.5	64.0
60	Btu/h	11800	10900	10300	9680	9090	8430	7640
	Watts	624	633	667	720	783	848	908
	Amps	7.50	7.69	7.92	8.22	8.60	9.08	9.69
	Lb/h	78.3	76.0	74.9	74.3	73.6	72.4	69.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.357568E+04	2.276054E+03	-4.070297E+00	1.874898E+02
C2	8.611311E+01	4.985950E+00	1.437469E-01	1.755590E-01
C3	-4.957169E+02	-5.052374E+01	2.210581E-01	-4.207798E+00
C4	1.103518E+00	-6.826091E-03	2.594436E-04	4.735092E-03
C5	2.741838E-01	-6.303458E-02	-2.501990E-03	7.819919E-03
C6	4.070870E+00	4.607394E-01	-1.471370E-03	3.558065E-02
C7	-5.107638E-03	-4.250896E-04	-1.576960E-06	-2.253156E-05
C8	-3.786420E-05	1.925839E-04	-2.265099E-06	2.986146E-05
C9	-4.378845E-03	4.851326E-04	1.310956E-05	-4.645057E-05
C10	-1.147818E-02	-1.328862E-03	3.344530E-06	-1.001441E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE4460U-AA1C

General Information

Model	AE4460U-AA1C	**Refrigerant**	R-290
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	3470	3790	3810	3610	3310	3020	2820
	Watts	447	481	511	536	560	583	606
	Amps	6.02	6.44	6.77	7.02	7.19	7.30	7.36
	Lb/h	21.3	23.5	24.2	23.9	23.1	22.3	21.8
10	Btu/h	3930	4260	4270	4070	3750	3430	3210
	Watts	457	493	526	555	582	609	636
	Amps	6.11	6.52	6.84	7.09	7.28	7.43	7.55
	Lb/h	24.1	26.4	27.2	27.0	26.2	25.4	24.9
15	Btu/h	4400	4740	4750	4540	4200	3850	3590
	Watts	467	506	541	573	604	635	667
	Amps	6.22	6.62	6.93	7.19	7.41	7.59	7.76
	Lb/h	27.0	29.5	30.4	30.2	29.4	28.5	28.0
20	Btu/h	4900	5250	5250	5020	4670	4290	3980
	Watts	477	519	557	592	627	661	698
	Amps	6.36	6.73	7.05	7.32	7.55	7.77	7.99
	Lb/h	30.1	32.7	33.6	33.5	32.7	31.8	31.1
25	Btu/h	5440	5780	5780	5530	5150	4740	4390
	Watts	487	531	572	611	649	688	728
	Amps	6.50	6.86	7.17	7.45	7.71	7.96	8.23
	Lb/h	33.6	36.2	37.2	37.0	36.2	35.2	34.5
30	Btu/h	6010	6350	6340	6080	5670	5210	4820
	Watts	497	544	587	629	671	713	758
	Amps	6.64	6.98	7.29	7.58	7.87	8.16	8.48
	Lb/h	37.3	40.0	41.0	40.8	39.9	38.8	38.0
35	Btu/h	6640	6970	6950	6660	6220	5720	5280
	Watts	506	555	601	646	692	738	787
	Amps	6.78	7.11	7.41	7.72	8.03	8.36	8.73
	Lb/h	41.5	44.2	45.1	44.9	44.0	42.8	41.8
40	Btu/h	7310	7640	7600	7290	6810	6270	5780
	Watts	514	565	614	663	711	761	815
	Amps	6.90	7.21	7.52	7.84	8.17	8.54	8.96
	Lb/h	46.1	48.8	49.7	49.4	48.4	47.1	45.9

45	Btu/h	8050	8370	8310	7970	7450	6870	6320
	Watts	520	574	626	677	729	783	841
	Amps	7.00	7.30	7.61	7.93	8.30	8.71	9.18
	Lb/h	51.3	53.9	54.8	54.4	53.3	51.8	50.5
50	Btu/h	8860	9170	9080	8710	8150	7520	6910
	Watts	524	580	635	690	745	803	865
	Amps	7.08	7.36	7.67	8.01	8.40	8.85	9.37
	Lb/h	57.0	59.6	60.4	59.9	58.6	57.0	55.5
55	Btu/h	9750	10000	9920	9510	8910	8230	7560
	Watts	526	585	643	700	759	821	887
	Amps	7.11	7.38	7.69	8.04	8.46	8.95	9.53
	Lb/h	63.4	65.9	66.6	66.0	64.6	62.7	61.0
60	Btu/h	10700	11000	10800	10400	9750	9010	8270
	Watts	526	587	647	708	771	836	906
	Amps	7.10	7.36	7.67	8.03	8.48	9.01	9.65
	Lb/h	70.5	72.9	73.6	72.8	71.2	69.1	67.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-2.280714E+04	-1.488589E+02	-3.340103E+00	-1.082516E+02
C2	8.560216E-01	-1.123454E-02	1.359937E-01	6.032547E-02
C3	7.073550E+02	1.264016E+01	1.961806E-01	3.383460E+00
C4	5.940807E-01	2.778023E-02	6.988996E-04	3.694922E-03
C5	1.792325E+00	-8.015093E-03	-2.672388E-03	8.549709E-03
C6	-6.192491E+00	-8.336540E-02	-1.182506E-03	-2.887394E-02
C7	9.375765E-03	-4.629195E-04	-1.037514E-05	8.434409E-05
C8	-6.037286E-03	-2.998603E-05	1.329147E-06	-4.137546E-05
C9	-8.837628E-03	3.503925E-04	1.341343E-05	-3.206273E-05
C10	1.734228E-02	2.151243E-04	2.285551E-06	7.989294E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature